

CLAIMS

1. A method to analyze gene expression comprised of:
- providing a plurality of samples of biological material arranged in a discrete compartment, wherein the plurality of samples contain gene expression products derived from at least two distinct biological conditions,
- contacting each of the plurality of samples with an antibody wherein the antibody is specific to the expression product of a gene sequence, and
- correlating the reaction between the antibody and the plurality of samples with expression of the gene sequence.
2. The method of claim 1 wherein the antibody is a murine polyclonal antibody.
3. The method of claim 1 wherein the step of contacting the plurality of samples is performed with at least 100 antibodies.
4. The method of claim 1 wherein the plurality of samples of biological material is comprised of samples from a human disease.
5. The method of claim 1 wherein the sample of biological material is a protein extract.
6. The method of claim 5 wherein the protein extract is derived from cancer cells or tissue.
7. The method of claim 1 further comprising the step of repeating the contacting step to identify a plurality of gene sequences associated with a biological condition.
8. The method of claim 7 wherein the biological condition is cancer.
9. The method of claim 7 wherein the biological condition is exposure to a chemical agent.
10. The method of claim 7 wherein the step of identifying a plurality of gene sequences is a differential analysis between a normal and disease state.

11. The method of claim 1 further comprising identifying the expression product of the gene sequence.
12. The method of claim 11 further comprising raising a monoclonal antibody to the expression product of the gene sequence.
- 5 13. The method of claim 1 further comprising determining the polynucleotide sequence of the gene sequence.

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